



FIRE APPARATUS ENGINEER (PARAMEDIC) 1FS01

DEPARTMENT(S): Department of Forestry & Fire Protection
OPENING DATE: December 4, 2020
FINAL FILING DATE: January 5, 2021
EXAM TYPE: OPEN
SALARY: \$4,418.00 - \$5,325.00
LOCATIONS: Statewide

EQUAL EMPLOYMENT & DRUG FREE STATEMENTS

The State of California is an equal opportunity employer to all, regardless of age, ancestry, color, disability (mental and physical), exercising the right to family care and medical leave, gender, gender expression, gender identity, genetic information, marital status, medical condition, military or veteran status, national origin, political affiliation, race, religious creed, sex (includes pregnancy, childbirth, breastfeeding and related medical conditions), and sexual orientation.

It is an objective of the State of California to achieve a drug-free state work place. Any applicant for State employment will be expected to behave in accordance with this objective, because the use of illegal drugs is inconsistent with the law of the state, the rules governing civil service, and the special trust placed in public servants.

WHO CAN APPLY

Persons who meet the minimum qualifications of the classification, as stated on this examination bulletin. All applicants must meet the education and/or experience requirements by the final filing date, **January 5, 2021**, unless otherwise noted on the class specification.

SPECIAL TESTING ARRANGEMENTS

If you have a disability and need special testing arrangements, you **must** mark the appropriate box on the application and submit the [Accommodation Request Form](#)

EXAM BULLETIN – FIRE APPARATUS ENGINEER (PARAMEDIC)
EXAM CODE – 1FS01 FINAL FILING DATE **1/5/2021**

([STD. 679](#)) with your application. This can also be found on the California Department of Human Resources website.

HOW TO APPLY

To apply for this examination, please complete and return the following:

- [Examination/Employment Application \(STD.678\)](#). This can also be found on the California Department of Human Resources' website. *You may submit your application by mail or in person.*
- Copy of your **Emergency Medical Technician-Paramedic (EMT- P) License/card** issued by the state of California.
- Letter from your **paramedic program** stating you are within five months of completing the program (if attempting to meet minimum qualifications through early-in option).

SUBMIT BY MAIL OR IN PERSON:

Department of Forestry and Fire Protection
710 Riverpoint Court,
West Sacramento, CA 95605
Examination Unit – (**Attn: Elena Villegas**)

DO NOT SUBMIT APPLICATIONS VIA E-mail

Applications postmarked or personally delivered after the final filing date, **1/5/2021**, will not be accepted for any reason.

All applications/resumes must include "from" and "to" employment dates (month/day/year), time base, and applicable civil service class titles. Applications/resumes received without this information will be rejected.

Dates printed on Mobile Bar Codes, such as the Quick Response (QR) Codes available at the USPS, are not considered Postmark dates for the purpose of determining timely filing of an application.

EXAMINATION INFORMATION

To obtain a position on the eligible list, applicants must receive a minimum rating of 70% on the examination. *This exam will consist of the following:*

ONLINE WRITTEN EXAMINATION WEIGHTED AT 100%

The examination will be administered in an online format consisting of job-related multiple-choice questions.

Candidates will be provided: CLASSMARKER Test Link

Candidates will need the following: A cell phone, tablet, or computer with access to the internet.

Compatible Web Browsers: Windows, Macintosh, Linux, ChromeOS/Chromebook, Internet Explorer, FireFox, Chrome, Safari, Opera, iPhone, iPad, iTouch and Android

It is anticipated the online written examination will be held in **February/March 2021.**

More information regarding the examination will be sent to the email address provided on your application.

Please ensure we have the correct email information on file

All exam questions are based on the Knowledge, Skills and Abilities listed in this bulletin and the [Fire Apparatus Engineer \(Paramedic\)](#) classification specification which is located on the CAL HR website. Use this information when preparing for this exam and retain this bulletin for your reference.

CANDIDATES WHO DO NOT COMPLETE THE ONLINE EXAMINATION WILL BE DISQUALIFIED.

MINIMUM QUALIFICATIONS

Possession of a valid driver license of the appropriate class issued by the Department of Motor Vehicles. (Applicants who do not possess the license will be admitted to the examination but must secure the license prior to appointment.) Possession of a current Emergency Medical Technician-Paramedic (EMT- P) certificate issued by a California County Health Officer; or enrollment in an approved paramedic training program within five months of completion. (Proof of paramedic certification applicable to county of employment will be required prior to appointment.)

AND EXPERIENCE:

EITHER I

Eight months of fire-fighting experience.

OR II

Enrollment in the California Fire Fighter Joint Apprenticeship Committee Pre-Apprenticeship Outreach Program and Eight months of fire-fighting experience.

OR III

Two years of experience as a certified volunteer fire fighter.

OR IV

Two years of experience as a Fire Prevention Specialist II and successful completion of the mandatory training courses prescribed for a Department of Forestry and Fire Protection Fire Fighter I.

(Candidates who are within two months of satisfying the experience requirement under Pattern I above for this class will be admitted to the examination, but they must fully meet the experience requirement before being eligible for appointment.)

ADDITIONAL DESIRABLE QUALIFICATIONS

Education equivalent to completion of the twelfth grade.

ELIGIBLE INFORMATION

A Departmental eligible list will be established for the Department of Forestry and Fire Protection. This list will be abolished 12 months after it is established unless the needs of the service and conditions of the list warrant a change in this period.

REQUIREMENTS FOR ADMITTANCE TO THE EXAMINATION

Accepted applicants are required to bring either a photo identification card or two forms of signed identification to each phase of the examination AND the notice to appear showing the scheduled date and time of the exam.

POSITION DESCRIPTION

Under general supervision, to operate fire apparatus during wildland and structural fire-fighting operations; to lead an assigned crew in the performance of fire-fighting duties; to maintain and make minor repairs on vehicles, equipment, and the fire stations; to perform fire prevention tasks; as part of a paramedic team, to perform paramedic duties in emergency medical situations; and to do other related work.

KNOWLEDGE, SKILLS, AND ABILITIES

Knowledge of:

1. Basic Life Support (BLS) and Advanced Life Support (ALS) airway adjuncts and techniques used on patients during medical and traumatic emergencies.
2. Principles and practices of emergency medical procedures (e.g., Basic Life Support [BLS], Cardiopulmonary Resuscitation [CPR], Automated External Defibrillator [AED]) to safely respond to and render medical aid.

3. Pharmacology (e.g., uses, dosage, administration) as appropriate for patient care and scope of practice
4. Basic human anatomy for effective treatment of patients during medical emergencies.
5. Advanced Life Support (ALS) standards to ensure proper patient care
6. Patient assessment (e.g., vital signs, skin signs, level of consciousness) to effectively treat patients at the Basic Life Support (BLS) level.
7. Fire apparatus (e.g., engine, truck, rescue) and their capabilities for effective use and maintenance
8. Emergency scene safety practices (e.g., traffic, life safety hazards, apparatus placement) to ensure the safety of the public and emergency response personnel.
9. Occupational Safety and Health Administration (OSHA) policies (e.g., two in – two out, accountability, lock out – tag out) to ensure personnel safety and compliance with Federal and State law.
10. Fire ground hydraulics (e.g., gallons per minute, pump operations, friction loss) to provide safe and effective water use.
11. Life hazard notification policies (e.g., Emergency Command Center notification, Three Stripes You're Out, personnel accountability) to ensure firefighter and scene safety.
12. Basic fire behavior (e.g., types, phases, characteristics) to identify the most effective extinguishing methods.
13. Safety gear (e.g., Personal Protective Equipment [PPE], traffic vest, fire shelter) to ensure compliance with safety rules, regulations, and personal safety.
14. Fire hose types (e.g., attack, supply) to ensure appropriate use in fire suppression and other activities.
15. Basic vehicle maintenance and repair (e.g., pre-trip inspection, scheduled maintenance, brake adjustment) to ensure safety and operational readiness.
16. Patient triage procedures and techniques (e.g., Respirations, Pulse, Mental status [RPM]; Simple Triage and Rapid Treatment [START]; triage tags) to ensure appropriate treatment is administered.
17. Rescue and extrication (e.g., vehicle, building, trench) techniques to safely and effectively remove entrapped victims.
18. Rescue, Exposure, Confinement, Extinguishment, Overhaul, Ventilation, Salvage (RECEO-VS) procedures to ensure effective operations in structural fires.
19. Wildland firefighting safety rules of engagement (e.g., 10 Standard Firefighting Orders; 18 Situations That Shout Watch Out; Lookouts, Communication, Escape Routes, Safety Zones) for safe operations.
20. Various terminology (e.g., Incident Command System, medical, fire) to communicate effectively.
21. Factors affecting wildland fire behavior (e.g., fuel, weather, topography) to ensure safe and effective operations.
22. Necessary qualifications (e.g., Driver's License, Emergency Medical Services [EMS] Credential) to comply with Federal, State, and local regulations.

23. Building construction (e.g., wood frame, masonry, metal frame) to determine appropriate fire suppression tactics and ensure firefighter safety.
24. Command systems (e.g., Incident Command System, National Incident Management System) for proper organization and structure.
25. Wildland-urban interface strategies and tactics for structure defense.
26. Standard response plans (e.g., medical, wildland, structure) for appropriate response to incidents.
27. Reference materials (e.g., Incident Response Pocket Guide [IRPG], Field Operations Guide, Fireline Handbook) to ensure firefighter safety and survival.
28. Hazardous material incident operations to analyze the situation and determine the appropriate actions (e.g., isolate and deny entry, lock-out tag-out, dike or dam the flow) to safely minimize and/or mitigate an incident.
29. Fire protection systems (e.g., sprinkler systems, fire department connections, standpipes, alarm systems) for preplanning and fire suppression.
30. The Department's safety procedures and programs (e.g., Injury and Illness Prevention Program [IIPP], Violence in the Workplace, Respiratory Protection Program [RPP], Workers' Compensation Program, California Occupational Safety Health Administration [CAL/OSHA]) to achieve workplace safety.
31. Maintenance and inspection methods for safety gear (e.g., Personal Protective Equipment [PPE], traffic vest, fire shelter) to ensure compliance with safety rules, regulations, and personal safety.
32. California Vehicle Code as it applies to the operation of commercial vehicles and emergency vehicles on the highways.
33. The Department's and cooperating agencies' communications systems (e.g., VHF, 800 MHz, UHF) to allow effective communications between agencies.
34. Navigational aids (e.g., Global Positioning System [GPS], maps, compass, Automated Vehicle Locator [AVL]) for assistance in navigation and mapmaking.
35. Applicable Department policies and procedures (e.g., material management, safety, procurement) for effective job performance.
36. The Department's mission, vision, and value statements to carry out the day to day activities of the Department.
37. Weather observation tools and techniques (e.g., belt weather kit, digital weather devices, online weather resources) to obtain location specific weather information.
38. Suppression resources (e.g., hand crew, dozers, aircraft) for ordering resources based on capabilities to ensure effective operations.
39. Writing elements (e.g. spelling, grammar, punctuation, sentence structure) to ensure that written materials are complete, concise, and error-free.
40. The state-wide radio call plan to effectively communicate with Emergency Command Centers and other emergency responders.
41. The Department's Employee Support Services (ESS) Program (e.g., Employee Assistance Program [EAP], Peer Counseling, Critical Incident Stress Management [CISM], Substance Abuse Assistance Program [SAAP]) to encourage health and wellbeing of staff in accordance with Department policies and procedures.

42. Mathematic calculations (e.g., algebra, arithmetic, geometry) for effective job performance.
43. Basic mechanics (e.g., automotive, small engine, household appliances) to perform general repairs to ensure proper maintenance and operational readiness.
44. Hazardous material incident command structure (e.g., Technical Reference Specialist, Entry Team Leader, Decontamination Leader) to safely mitigate an incident.
45. Federal, State, and local regulations affecting emergency plans (e.g., operating plans, response plans, pre-plans) to ensure personnel are in compliance during emergency operations.
46. Applicable codes, laws, rules, and regulations (e.g., Public Resource Code, Health and Safety Code, Penal Code, Uniform Fire Code) to ensure appropriate application in all administrative and firefighter activities.
47. Fire prevention principles and practices (e.g., defensible space, school programs, weed abatement) to prevent fires and provide fire safety.
48. Basic construction (e.g., buildings, trails, water systems) for appropriate maintenance and project completion.

Skill to:

1. Render basic medical aid (e.g., cardiovascular pulmonary resuscitation, oxygen administration, control bleeding) to stabilize patients.
2. Perform and adhere to the California State Paramedic scope of practice (e.g., intubation, vascular access, medication administration).
3. Safely drive and operate emergency equipment (e.g., utility vehicles, fire apparatus, crew buses) through adverse conditions (e.g., mountainous and/or rough terrain, heavy traffic, long drives, inclement weather).
4. Operate resuscitator and/or bag valve mask to individuals having difficulty breathing and in respiratory failure.
5. Operate medical devices (e.g., Automated External Defibrillator [AED], bag valve mask, splints) to render medical aid.
6. Operate firefighting equipment (e.g., hoses, extinguishers, ladders) for safe and effective use during fire suppression and training.
7. Operate various fire pumps (e.g., vehicle, portable, auxiliary) for safe and effective use during fire suppression and training.
8. Multi-task during emergency and non-emergency situations to ensure effective operation and performance.
9. Perform arduous physical activity (e.g., running, hiking, climbing) in all conditions and terrain for effective job performance.
10. Use proper lifting mechanics to prevent personal injury.
11. Speak to others to effectively convey information (e.g., incident, safety, education).
12. Read and comprehend information (e.g., fire, medical, policies, procedures) to effectively interpret information.

13. Use communication equipment (e.g., radio, telephone, Mobile Data Computer) for effective communication in emergency and non-emergency situations
14. Produce written correspondence (e.g., email, letters, forms) to effectively convey information.
15. Construct a fire line using tools (e.g., power, hand, firing devices) to limit fire spread in various fuel types and conditions.

Ability to:

1. Administer the correct medication appropriately in a given situation for proper patient care.
2. Assess and administer the appropriate level of care during medical emergencies.
3. Administer Cardiopulmonary Resuscitation (CPR) in medical emergencies to provide the highest level of care to the public
4. Check vital signs of patient to determine whether circulation and respiration are functional and adequate.
5. Adequately administer emergency medical care to ill or injured persons to stabilize the patient.
6. Recognize the critically ill or injured (e.g. acute vs. non-acute) for proper patient care.
7. Exercise good judgement in emergency situations to ensure safe and effective operations.
8. Communicate effectively in stressful situations for effective job performance.
9. Maintain situational awareness during stressful situations for safe and effective outcome.
10. Multi-task during emergency and non-emergency situations to accomplish numerous or daily tasks.
11. Recognize the characteristics of smoke (e.g., volume, velocity, density, color [VVDC]) to determine operational needs and safety factors.
12. Recognize life safety hazards and make appropriate decisions for an effective resolution.
13. Properly manage fireline personnel emergencies (e.g., wildland, structural) to provide prompt care and treatment.
14. Accurately compute hydraulic calculations to achieve effective fire flow.
15. Operate various fire hoses (e.g., charged, bundled) for appropriate application during fire suppression and other activities.
16. Recognize the characteristics of fire behavior to ensure firefighter and public safety.
17. Communicate effectively using a variety of terminology (e.g., incident command system, medical, fire) for safe and effective operation.
18. Accurately interpret and follow directions from others (e.g., adjoining forces, crews, supervisors) to accomplish tasks.
19. Recognize sensitive situations (e.g., crime scene, fatality accident) to maintain confidentiality.

20. Interpret applicable medical codes, laws, rules and regulations (e.g., Emergency Medical Services [EMS], Ryan White Act) to ensure appropriate application in all administrative and firefighter activities.
21. Determine appropriate strategies and tactics (e.g., Rescue, Exposures, Confinement, Extinguish, Overhaul, Ventilation, Salvage [RECEO-VS], defensive vs. offensive, mode of operations) in emergency situations according to industry standards to ensure safe and effective operations.
22. Manage emergency incidents according to established procedures (e.g., laws, policies, agency agreements).
23. Follow written and oral instructions to ensure a safe and effective operations
24. Safely use and maintain firefighting tools and equipment (e.g., chainsaw, axe, ventilation fans) to accomplish tasks.
25. Operate Department and cooperating agencies' mobile equipment to safely and effectively complete daily tasks.
26. Maintain cooperative relationships with other organizations and agencies, and individuals in a work situation for safe and effective operations.
27. Verbally communicate effectively to a variety of audiences (e.g., patients, coworkers, stakeholders) to maintain effective relationships.
28. Prepare clear and concise reports (e.g., fire, finance, medical) for accurate report writing.
29. Safely coordinate resources (e.g., air, ground, water) with operations to maximize effective use of available resources.
30. Read and interpret maps (e.g., topographic, road, quadrangle) to complete tasks and locate specific areas.
31. Question callers to determine their locations, the nature of their problems, and determine the type of response needed with accuracy.
32. Solve mathematical problems (e.g., arithmetic, geometry, algebra) to ensure accuracy.
33. Assist in personnel functions (e.g., hiring, performance management, training) to meet the Department's mission, vision, and values.

CONTACT INFORMATION

Department of Forestry and Fire Protection
(916) 894-9580
CALFIREexams@fire.ca.gov

TDD is Telecommunications Device for the Deaf and is reachable only from phones
Equipped with a TDD Device

1 (800) 735-2929 (TT/TDD) 1 (800) 735-2922 (Voice)

STS is Speech-to-Speech Service for persons with a speech disability and is
reachable at

1 (800) 854-7784 (California) or 1 (800) 947-8642 (Nationwide)

GENERAL INFORMATION

For all examinations (with or without a written feature), it is the candidate's responsibility to contact the Department of Forestry and Fire Protection, (916) 894-9580, three weeks after the cut-off/final filing date if he/she has not received a progress notification or notice to appear.

If a candidate's notice of oral interview or performance test fails to reach him/her three days prior to their scheduled appointment due to a verified postal error, he/she will be rescheduled upon written request.

Examination Locations: When a written test is part of the examination, it will be given in such places in California as the number of candidates and conditions warrant. However, locations of interviews or performance evaluations may be limited or extended as conditions warrant.

Applications are available online at CalHR, local offices of the Employment Development Department and the testing Department on this job bulletin.

If you meet the requirements stated on this bulletin, you may take this examination, which is competitive. Possession of the entrance requirement does not assure a place on the eligible list. Your performance in the examination will be compared with the performance of the others who take this test, and all candidates who pass will be ranked according to their scores.

The Department of Forestry and Fire Protection reserves the right to revise the examination plan to better meet the needs of the service, if the circumstances under which this examination was planned change. Such revision will be in accordance with civil service laws and rules and all competitors will be notified.

General Qualifications: Candidates must possess essential personal qualifications including integrity, initiative, dependability, good judgment, and ability to work cooperatively with others; and a state of health consistent with the ability to perform the assigned duties of the classification. A medical examination may be required. In open examinations, investigation may be made of employment records and personal history and fingerprinting may be required.

Eligible Lists: Eligible lists established by competitive examination, regardless of date, must be used in the following order: 1) sub-divisional promotional, 2) Departmental promotional, 3) multi-Departmental promotional, 4) service-wide promotional, 5) Departmental open, 6) open. When there are two lists of the same kind, the older must be used first. Eligible lists will expire in one to four years unless otherwise stated on the bulletin.

If High School Equivalence is Required: Equivalence to completion of the 12th grade may be demonstrated in any one of the following ways: 1) passing the General Educational Development (GED) Test; 2) completion of 12 semester units of college

work; 3) certification from the State Department of Education, a local school board, or high school authorities that the candidate is considered to have education equivalent to graduation from high school; 4) for clerical and accounting classes, substitution of business college work in place of high school on a year-for-year basis.

Confidentiality and Security: Pursuant to Government Code Sections 19680(c) and 19681(b) it is unlawful to copy and/or furnish confidential examination material for the purpose of either improving or injuring the chances of any person or to obtain examination questions or other examination material before, during, or after an examination. Every person violating these provisions is guilty of a misdemeanor, and adverse action will be pursued. This may result in the person being barred from competition in future examinations, withheld from certification lists, or cancellation of eligibility for employment in State civil service.